What is Claimed is:

- 1. VTOL micro-aircraft comprising:
- a first ducted rotor and a second ducted rotor mutually aligned and distanced according to a common axis and each including a propeller rotatable within a respective annular cowling,
- a fuselage positioned along said common axis between said first and second rotor and bearing said propellers at its ends,
- first and second motorised means positioned at said ends of the fuselage to drive the propellers of said first and second rotor in mutually opposite directions of rotation,
- a wing system positioned radially between said fuselage and said first and second rotor, and
 - control means.

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- 2. Micro-aircraft as claimed in claim 1, wherein said wing system includes wing profiles forming a substantially X shaped configuration.
- 3. Micro-aircraft as claimed in claim 2, further comprising an additional wing profile (14) positioned within said X configuration.
 - 4. Micro-aircraft as claimed in claim 2 and claim 3, wherein said wing profiles are hollow.
- 5. Micro-aircraft as claimed in any of the claim 4, wherein said wing profiles interconnect said fuselage and said annular cowlings of said first and second rotor.
 - 6. Micro-aircraft as claimed in claim 1, wherein said fuselage is designed to house means for powering said motorised means and a system for managing said motorised means and said control means with an inertial navigation system associated thereto.
- 7. Micro-aircraft as claimed in claim 2 and claim
 35 3, wherein said control means include directional flaps

applied to said wing profiles in proximity to said first ducted rotor and/or in proximity to said second ducted rotor.

- 8. Micro-aircraft as claimed in claim 7, wherein said control means are also associated to said cowling of said second ducted rotor.
- 9. Micro-aircraft as claimed in claim 1, wherein said propellers have different profiles.
- 10. Micro-aircraft as claimed in claim 1, wherein 0 said motorised means include for each ducted rotor at least an electric motor.
 - 11. Micro-aircraft as claimed in claim 1, wherein said motorised means include for each ducted rotor at least a micro-combustor motor.
- 12. Micro-aircraft as claimed in claim 1, having surfaces coated with organic film solar cells.
 - 13. Micro-aircraft as claimed in claim 1, having surfaces made with silica wafer.

14. Micro-aircraft as claimed in claim 1, wherein 20 said wing system includes wing profile forming a substantially H shaped configuration.